

T28 – Silicone Tape

Electrical & Mechanical Specifications

| Typical Properties | Test Method | Performance |
|--|---------------------------|--|
| Operating Temperature Ranges: Continuous: Intermittent: | | -45°C to 200°C (-50°F to 400°F) -65°C to 260°C (-80°F to 500°F) |
| Specific Gravity | ASTM D792 | 1.2 ± .03 |
| Hardness, Durometer, Shore A Room-cured-24 Hours: | ASTM D2240 | 55 ± 5 |
| Tensile Strength | ASTM D412 | 700 psi min. |
| Elongation | ASTM D412 | 300% min |
| Tear Strength | ASTM D624, Die B | 60 ppi min. |
| Bond Strength | MIL-I-46852 | 2 lbs min. |
| Adhesion, unwind | ASTM D2148 | 3 in. Min. |
| Cold Brittle Point | ASTM D2137 | -54°C (-65°F) |
| Water Absorption, by weight | Fed. Std. 601, Meth. 6251 | 5% max. |
| Dielectric Strength | ASTM D149 | 400Vpm min. |
| Dielectric Constant, 1kHz | ASTM D150 | 2.95 |
| Dissipation Factor, 1kHz | ASTM D150 | <0.0004 |
| Volume Resistivity | ASTM D257 | 1 x 10 ¹³ OHMS/cm min. |

Relation and Compliance to Industrial Standards

- A-A-59163: Which supercedes MIL-I-46852C
- CPSIA: Consumer Product Safety Improvement Act
- PROP 65: The Safe Drinking Water and Toxic Enforcement Act of 1986
- Class H Insulator – National Electrical Manufacturers Association (NEMA)
- RoHS: Restriction of Hazardous Substances Directive 2002/95/EC
- REACH: Registration, Evaluation, Authorization and Restriction of Chemicals (EU Regulation)
- Flammability Testing: Per CPSC's ASTM F963-08

The Insulating Wrap Product Line is UL Listed for use at not more than 600 V and at not more than 80°C (176°F)

General Performance Properties

| | | | |
|------------------------------|-----------|-------------------------------|-----------|
| Moisture Resistance | Excellent | UV Resistance | Excellent |
| Electrical Insulation | Excellent | Ozone Resistance | Excellent |
| Resilience | Excellent | Corrosion Prevention | Excellent |
| High Temperatures | Excellent | Solvent Resistance | Good |
| Flame Resistance | Good | Acid Resistance | Good-Fair |
| Abrasion Resistance | Good | Oil Resistance | Good-Fair |
| Tear Resistance | Good | Hydrocarbon Resistance | Good-Fair |

Properties quoted are typical and do not therefore constitute a specification. Customers must complete their own assessment of the product for its intended application under their own conditions. Our technical advice is to be regarded as an expression of opinion only and although such advice is given in good faith, it shall not, in any circumstances, be regarded as the basis of or as being a representation or statement of fact. This applies also where propriety or protective rights of third parties are involved. Any liability arising in respect of our products will be strictly limited to the value of those products charged to the customer and shall not extend to any consequential loss whatsoever and howsoever arising. This document does not form part of any contract with a customer. (14/03/06)